



CERTIFICATE OF ANALYSIS

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1. Identification

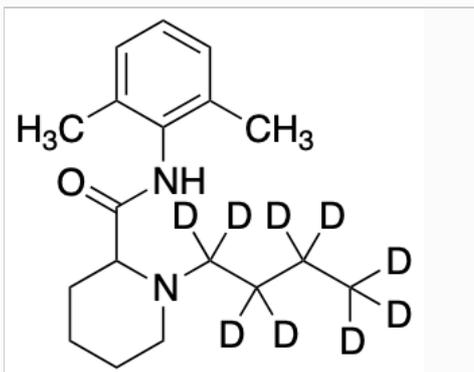
Catalogue Number: B689579

CAS Number: 474668-57-0

Product: (\pm)-Bupivacaine-d9 (butyl-d9)

Synonym:

Structure:



Molecular Formula:

$C_{18}H_{19}D_9N_2O$

Molecular weight:

297.49

Source of Product:

Synthetic

Solubility:

Chloroform (Slightly),
Methanol (Slightly)

Lot Number: 2022-SUM-008

Purity: 98%

Shipping Condition: This Product Is Stable To Be Shipped At Room Temperature

Storage Condition: -20°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	White to Off-White Solid	White to Off-White Solid
NMR	Conforms to Structure	Conforms
HPLC Purity	Report Result	99.04% (202 nm)
MS	Conforms to Structure	Conforms
Isotopic Purity	>95%	99.6%

Additional Information:

Normalized Intensity: d0 = 0.00%, d1 = 0.00%, d2 = 0.00%, d3 = 0.00%, d4 = 0.00%, d5 = 0.00%, d6 = 0.00%, d7 = 0.06%, d8 = 3.72%, d9 = 96.21%***2022-SUM-008 was tested under CDN lot Z-378***

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of $\pm 2\%$. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

Reviewed By	Reviewed By	C of A Approved By	Test Date	Retest Date
Iuri Lutenco	Toni Rantanen	Chanell Chu	11/14/2022	11/12/2029